

## **Appendix D**

### **Purge Water Management System Presentation**

# **Slides from a Power Point Presentation on The Purge Water Management System**

**From a presentation by  
Bechtel Savannah River, Inc.**



**A Promising Engineering Approach to Manage Groundwater  
Monitoring Well Purge Water: The Purge Water Management  
System (PWMS) (U)**

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**Environmental Restoration Division**

**Sponsored by SRS DOE Management Team**

# Purge Water Management System (PWMS)

PURGE  
WATER  
MANAGEMENT  
SYSTEM

494-3

*Innovative Design*

# Background

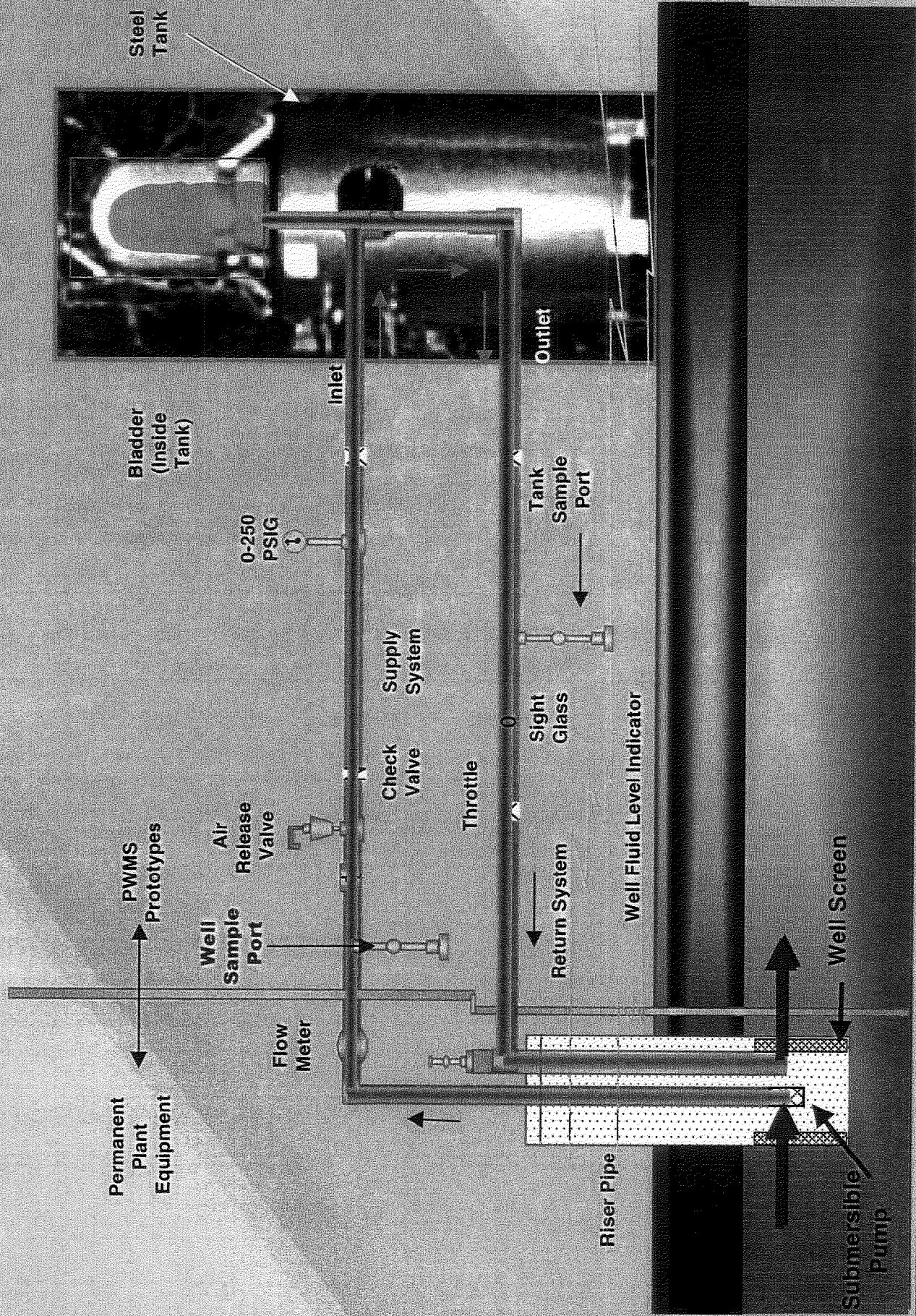
- Groundwater monitoring activities produce substantial amounts of aqueous waste
- PWMS provides
  - a safer, more cost-effective method for sampling wells
  - while minimizing related waste and protecting the environment

# Description

- **An innovative closed-loop, non-contact system**
- **Returns purge water back to the originating aquifer**
- **While producing sampling data that is representative of the aquifer**

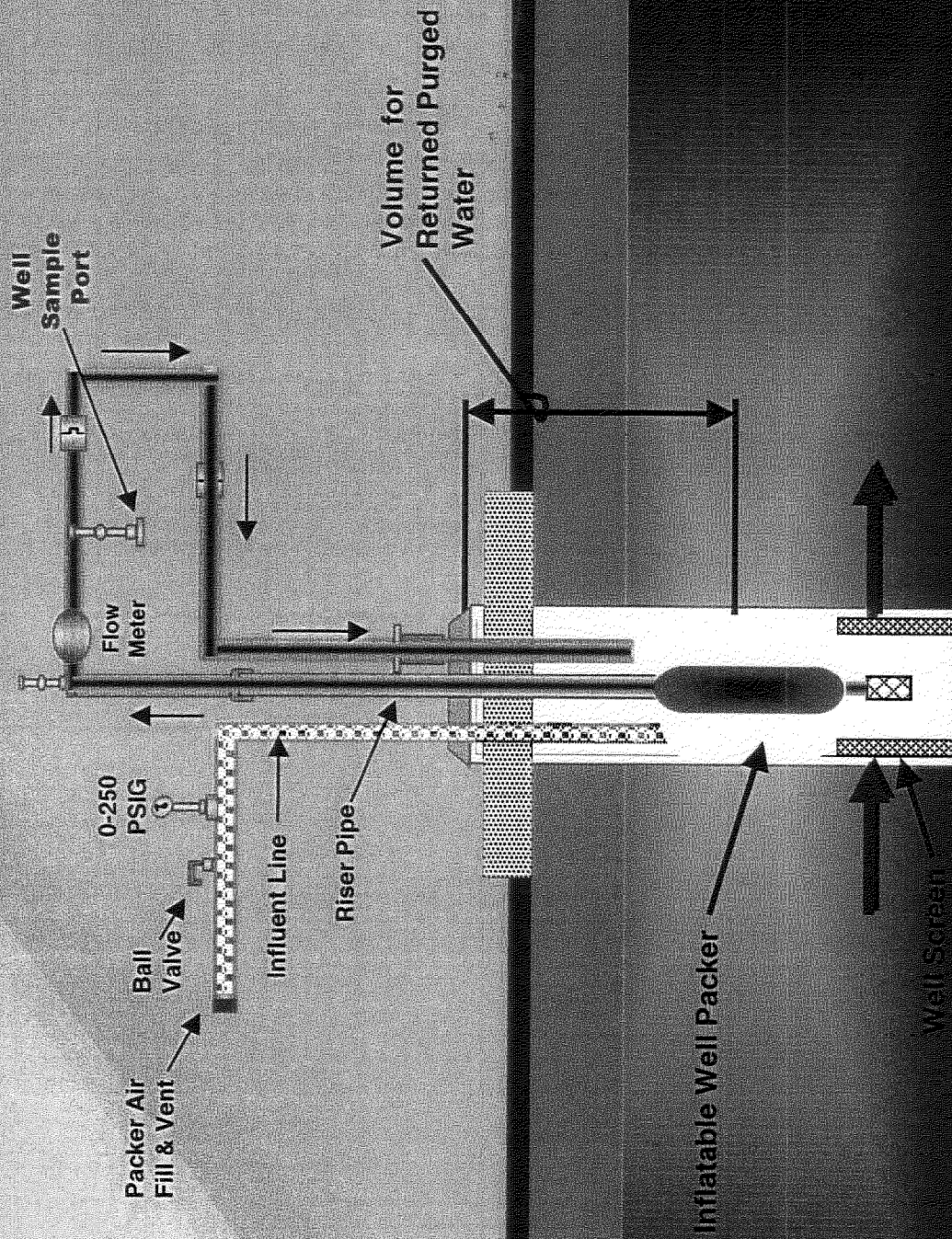


# Purge Water Management System





# Tankless PWMS



- Inflatable well packer is used
- Packer is inflated prior to sampling
- Variable speed pump is utilized
- Water chemistry is not altered
- Purge volume is significant reduced